

INTERNATIONAL SEARCH REPORT

Int'l	Application No
Pv. 1 / UO<>005/015393	

A. CLASSIFICATION G05B19/418 G05B23/02 G06F9/44																
According to International Patent Classification (IPC) or to both national classification and IPC																
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G05B G06F																
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal , WPI Data																
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Category</th> <th style="width: 80%;">Citation of document with indication where appropriate of the relevant passages</th> <th style="width: 10%;">Relevant to claim No</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2002/077711 A1 (NIXON MARK J ET AL) 20 June 2002 (2002-06-20) the whole document -----</td> <td>1-20</td> </tr> <tr> <td>X</td> <td>US 6 445 963 B1 (BLEVINS TERRENCE L ET AL) 3 September 2002 (2002-09-03) the whole document -----</td> <td>1-20</td> </tr> <tr> <td>A</td> <td>US 5 576 946 A (BENDER ET AL) 19 November 1996 (1996-11-19) the whole document -----</td> <td>1-20</td> </tr> <tr> <td>A</td> <td>US 5 353 316 A (SCAROLA ET AL) 4 October 1994 (1994-10-04) the whole document -----</td> <td>1-20</td> </tr> </tbody> </table>		Category	Citation of document with indication where appropriate of the relevant passages	Relevant to claim No	X	US 2002/077711 A1 (NIXON MARK J ET AL) 20 June 2002 (2002-06-20) the whole document -----	1-20	X	US 6 445 963 B1 (BLEVINS TERRENCE L ET AL) 3 September 2002 (2002-09-03) the whole document -----	1-20	A	US 5 576 946 A (BENDER ET AL) 19 November 1996 (1996-11-19) the whole document -----	1-20	A	US 5 353 316 A (SCAROLA ET AL) 4 October 1994 (1994-10-04) the whole document -----	1-20
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Patent document cited in search report	Publication date	Patent family member(s)			Publication date
US 2002077711 A1	20-06-2002	NONE			
US 6445963	B1	03-09-2002	DE GB HK JP	10048360 A1 2355545 A 1061578 A1 2001216003 A	10-05-2001 25-04-2001 04-02-2005 10-08-2001
US 5576946	A	19-11-1996		NONE	
US 5353316	A	04-10-1994	US US	5353315 A 5287390 A	04-10-1994 15-02-1994